

By WILLIAM PARK
SCIENTIFIC EDUCATION COR.
301 Adams St.
Brooklyn N.Y.

Conceived and Executed by
William Park.

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POPULAR SCIENCE FILMS.

REEL 1.---THE MYSTERY OF SPACE.

This reel treats of the SOLAR SYSTEM and is entirely Astronomical in character.

It begins with the Sun--shows Sun as seen through a telescope--Sun Spots are shown---a short view of the Solar Sytem follows--then each planet beginning with the Earth is shown passing across the screen, in motion and with the proper number of Satellites which also are in motion around their parent bodies. Various other phenomena such as the so-called canals of Mars and surface markings on each of the planets and the Rings of Saturn are shown. The reel ends with a full view of the Sun and all the planets revolving around it in their orbits---that is, a full view of the Solar System.

Close-ups and distant views of some of the planets are shown, especially of the Earth and Mars.

REEL 2.--- THE LIVING AND THE DEAD--THE EARTH & MOON.

This reel treats of the Earth and the Moon. That is these bodies follow the natural scheme of inter-relation contained in the Series. In the first reel the Solar System was treated. In the second part of that system, the Earth and Moon, are taken and the various phenomena ~~xxxxxxxx~~ connected with each are shown.

These phenomena are treated as follows----

- 1-. Comparative sizes of Sun, Earth & Moon are shown.
- 2-. Full view of Earth & Moon in comparative sizes and showing them both in ~~xxxxxx~~ motion, the earth on its axis and the Moon around the Earth.
- 3-. A trip to the Moon showing--Earth ~~xxxxxx~~ receding--Moon getting closer close-up of Moon showing landscape---Earth rotating in distance---back to Earth again--Moon receding and Earth getting closer.
- 4-. Phases of the Moon--New Moon coming and fading--First Quarter showing Moon coming to that phase---Moon passing from First Quarter to Full Moon--Moon passing from Full Moon to Last Quarter---Last Quarter to New Moon again---~~whyxxxxxxxxxxxx~~.
- 5-. Eclipses of Sun and Moon---Partial Eclipse of Moon---Total Eclipse of Moon---why there is not an eclipse every month---Partial Eclipse of the Sun--Total Eclipse of the Sun--Corona of the Sun at Total Eclipse. why there is not an Eclipse of the Sun every month--an Annular Eclipse of the Sun.

REEL 3.----- THE STORY OF THE SEASONS.

This reel treats of the Causes of the SEASONS.

- 1-. Earth is shown in its revolution around the Sun.
- 2-. Importance of the Tilt of the Axis--the result if the Axis were perpendicular all the time, that is, there would be no Seasons.---the result of the tilt, that is, the Sun would not shine over the Equator all the time but would be directly overhead 23 1/2 degrees north and south of the Equator causing the changing of the Seasons.--arrows from the sun in each case to make clear the fact of the Overhead Sun and its real meaning--~~xxxxxxx~~.
- 3-. Earth in its journey around the Sun --each garter is taken separately--Dec. to March--March to June--June to Sept. and Sept. to Dec. again--the Earth is therefore seen at all Seasons of the year in its relation to the Sun and the Causes are seen, that is, the Tilt of the Axis and the revolution around the Sun.

REEL 4. ----AND GOD DIVIDED THE NIGHT FROM THE DAY.

This reel treats of the Causes of Day & Night and the variation in the length of day and night at the various seasons of the year. Incidentally the subject of Time is introduced.

(Continued on next page)

Reel 4 (continued)

Certain portions of Reel 3 are repeated such as the annual revolution of the Earth around the Sun.
The Circle of Illumination is shown on the Earth and pointed out---this Circle of Illumination or The Line between Night and Day is paid particular attention to-----at the end of each Quarter of the Year, that is, every three months this Line is shown and pointed out to show what parts of the Earth are darkness and which in Light---in this way the changing Circle of Illumination is seen with the Causes of the change----- the longest day in the Northern Hemisphere, June 21st. and the longest in the Southern, Dec. 21st. is shown with all the accompanying conditions such as Earth, Tilt of Earth, Sun and the Circle of Illumination.

The Overhead Sun is treated, that is, where you would be on the earth at any time of year to have the Sun right over your head--this Overhead Sun is actually seen on the Earth---Time is introduced by showing New York in City in line with the Overhead Sun then earth turning to sunset at New York, ~~that is~~ that is, New York going into darkness---London Eng. is then treated in the same way so as to bring out the difference in Time between New York and London---the reel ends with the Earth on its journey around the Sun again.

REEL 5.---THE WINDS OF THE WORLD.

The general subject of Climate is now introduced and this reel treats of the origin of winds and their causes and importance in the following---

- 1-. Primary cause in the heat from the Light of the Sun--Earth and Sun are shown---diagram to show the heating of the highlands and the consequent drawing of air from the seas---the Hot Equatorial region of the Earth with the cause thereof--the course of the heated air rising from that belt---its drawing back forming the Trade Winds---The Westerlies shown with the region they cover by arrows---the Belt of Calms or the Horse Latitudes shown as dry belts with the result on Vegetation---~~xxxxx~~.
- 2-. The annual movement with the Sun of these Wind Belts bringing the consequent change of weather like the Wet and Dry Seasons of California---The Overhead Sun, the primary cause, is also shown in its annual migration from tropic to tropic.
- 3-. A short introduction of Condensation and Precipitation is shown--these processes are actually shown taking place by using an ordinary Tea Kettle.

REEL 6---RAINFALL .

This reel follows Reel 5 by showing the relation between Winds and the Distribution of Rainfall or Moisture. The order is as follows---

- 1-. Precipitation and Condensation are again shown as in Reel 5.---then follows a diagrammatic representation of Heat from the Light of the Sun causing the Air over highlands to rise and the air from cooler regions flowing in to take its place--arrows are used to show this general movement of air in each diagram---condensation is shown at the tops of the mountains by showing the invisible vapor carried by the winds turning into clouds or rain----
- 2-. The Origin of Storms is shown and is the most important part of this reel---storms starting in the North Pacific are shown---their movement eastward is seen bringing rain and moisture to Western North America--~~the xxxxxxxx~~ the moisture taken out on the slopes and thus making the central states dry---Storms arising over the Gulf of Mexico--their movement North East over the Atlantic States and off into the Atlantic--Storms in the North Atlantic--movement over Western Europe bringing rain becoming dry when they reach Central Asia accounting for the Asiatic Deserts---Storms in the Southern Pacific--passing over Chili and Argentine--passing Eastward to South Africa and South Australia bringing moisture at certain times of the year to those countries.
- 3-. Amount of Rainfall--trainload of 100 cars--to show what vast amount of water is needed by an area same as New York State--the work of the winds to distribute this--reel closes showing sunset with clouds.

P.S.--In all these Reels an Earth Globe is used which shows the physical Relief of the Earth--mountains, plains, rivers &c. It also shows in shades of black and white snow covered areas, deserts, grasslands

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